Grammar of Sense Making

Organizations

      Krasnow Institute for Advanced Studies
      Computer Vision Lab, U of Maryland
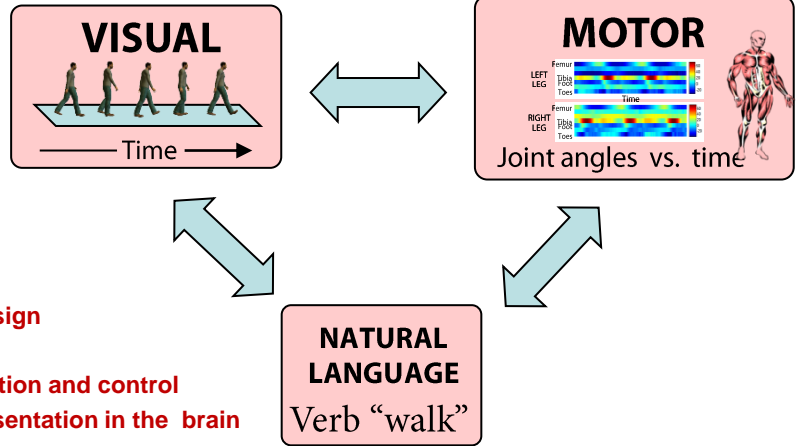
Lead Investigator – Dr. James Albus
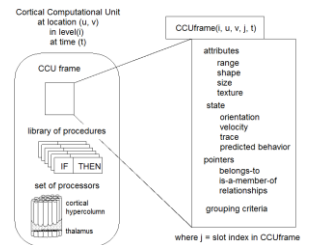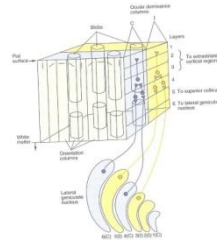**Team Members**

      Prof. Yiannis Aloimonos, U of Maryland

Unique qualifications and capabilities:
- **40 years experience in intelligent systems design**
- **Expertise in active vision and segmentation**
- **Integration of high-level with low-level perception and control**
- **Unique CCU model of computation and representation in the brain**

VISUAL

Time

MOTOR

LEFT LEG — Femur, Tibia, Foot, Toes
RIGHT LEG — Femur, Tibia, Foot, Toes
Time

Joint angles vs. time

NATURAL LANGUAGE

Verb "walk"
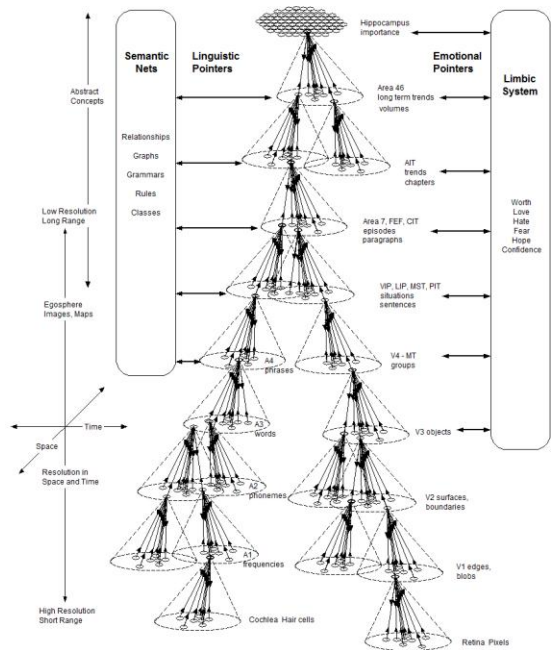
Cortical Computational Units

CCU = Cortical Hypercolumn + underlying thalamic nuclei

CCU Architecture
for
Sense Making
in
Vision and Hearing

Segmentation and Grouping Hierarchy

Pointers Established or Broken in < 150 ms

Symbol Grounding

Seeking expertise in:
Computational Linguistics
Cognitive Psychology

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